

## Claims

1. Device for cleaning of textile articles with a densified, liquid state treatment gas, comprising a treatment chamber (10), a supply tank (18) for densified treatment gas and an evaporator chamber (36), the spaces which are connected to each other by way of suitable tubes to permit pressure balance between the different spaces, filling of the treatment chamber (10) with liquid state treatment gas from the supply tank (18), as well as drainage of liquid state treatment gas from the treatment chamber (10) to the evaporator chamber, including compressor means (46) arranged, which are adapted partly to bring about essentially complete drainage of gaseous treatment gas from the treatment chamber (10), partly to constitute the driving means during one in the process included distillation phase where densified treatment gas in the evaporator chamber (36) is given gaseous state and via condenser means (44) is conveyed back to the supply tank (18), **characterized therein** that the condenser means (44) being in heat transmitting contact with the evaporator chamber (36), besides the compressor means are organized together with the condenser means to form a heat pump intended alone to furnish the heat energy requisite for evaporation of the liquid in the evaporator.
2. Device according to claim 1, **characterized therein** that in the tube connecting the evaporator chamber (36) to the supply tank (18) is arranged an additional heat exchanger (62).
3. Device according to claim 1 or 2, **characterized therein** that the supply tank (18) is arranged above the treatment chamber (10), which is arranged above the evaporator chamber (36) so that liquid state treatment gas due to gravitation can be conveyed from the supply tank (18) to the treatment chamber (10), respectively from the treatment chamber (10) to the evaporator chamber (36).
4. Device according to any of the preceding claims, **characterized therein** that the liquid state treatment gas is constituted by carbon dioxide.

099376828 091801

5. Device according to claim 1, **characterized therein** that the treatment chamber (10) is adapted to also constitute evaporator chamber.
6. Device according to claim 5, **characterized therein** that the condensor means  
5 (80,82) are in heat transferring contact with the treatment chamber (10).
7. Device according to claim 6, **characterized therein** that the condensor means are constituted by a heat exchanger comprising a container (80), which is applied at the bottom of the treatment chamber (10), and the interior of which is in flow-connection  
10 to the interior of the treatment chamber, besides a tube (82) is passing through the container (80), and during a course of evaporation gaseous carbon dioxide is conveyed from the treatment chamber (10) via the compressor (46) to condensing.

09035820 091201